

## WEST Search History

DATE: Sunday, February 11, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L88	L87 and ((connect or connecting or connected or connection or connectable) same ((lead\$3) with (examination or zone or area or volume or region or investigation or interest or "roi" or "voi"))) same (RF or radiofrequency or radio-frequency or "radio frequency"))	1
<input type="checkbox"/>	L87	L86 and ((heating or heated or heat or thermal or thermally or heatable) same (lead\$3) same (prevent or inhibit or inhibited or inhibiting or prevention or prevented or preventable or preventing or minimized or minimal or minimally or mnor or avoid or avoiding or avoided or precluded or precluding or preclude))	2
<input type="checkbox"/>	L86	L84 and ((transformer) same ((connect or connecting or connected or connection or connectable) same (lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section))))	3
<input type="checkbox"/>	L85	L84 and (toroid\$4)	1
<input type="checkbox"/>	L84	L79 and (transformer)	13
<input type="checkbox"/>	L83	L82 and ((twist\$3 with pair\$3 or duo or dual or bifilar\$2 or bifiliar\$2 or bifliar\$2) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil)))	1
<input type="checkbox"/>	L82	L81 and (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8")	3
<input type="checkbox"/>	L81	L80 and ((inductive or inductance or induct\$2 or inductively) same (coupl\$4) same (conduct\$4) same (ring or loop or annulus or anulus or anular\$2 or winding or coil))	6
<input type="checkbox"/>	L80	L79 and ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)))	50
<input type="checkbox"/>	L79	L78 and ((connect or connecting or connected or connection or connectable) same ((lead\$3) with (examination or zone or area or volume or region or investigation or interest or "roi" or "voi")))	180
<input type="checkbox"/>	L78	((324/300-322.ccls.) or (600/407-435.ccls.))	17453
<input type="checkbox"/>	L77	L74 and ((inductive or inductance or induct\$2 or inductively) same (coupl\$4) same (conduct\$4) same (ring or loop or annulus or anulus or anular\$2 or winding or coil))	1
<input type="checkbox"/>	L76	L74 and ((inductive or inductance or induct\$2 or inductively) same (coupl\$4) same (conduct\$4) same (ring or loop or annulus or anulus or anular\$2 or winding or coil))	0
<input type="checkbox"/>	L75	L74 and (transformer)	1

<input type="checkbox"/>	L74	L73 and (catheter)	4
<input type="checkbox"/>	L73	L72 and ((heating or heated or heat or thermal or thermally or heatable) same (lead\$3) same (prevent or inhibit or inhibited or inhibiting or prevention or prevented or preventable or preventing or minimized or minimal or minimally or mnor or avoid or avoiding or avoided or precluded or precluding or preclude))	4
<input type="checkbox"/>	L72	L64 and ((twist\$3 with pair\$3 or duo or dual or bifilar\$2 or bifiliar\$2 or bifliar\$2) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil)))	4
<input type="checkbox"/>	L71	L64 and (((inductive or inductance or induct\$2or inductively) same (coupl\$4)) same ((twist\$3 with pair\$3 or duo or dual or bifilar\$2 or bifiliar\$2 or bifliar\$2) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil)) ))	3
<input type="checkbox"/>	L70	L69 and (catheter)	3
<input type="checkbox"/>	L69	L65 and (((inductive or inductance or induct\$2or inductively) same (coupl\$4)) same ((twist\$3 with pair\$3 or duo or dual or bifilar\$2 or bifiliar\$2 or bifliar\$2) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil)) ))	3
<input type="checkbox"/>	L68	L65 and ((twist\$3 with pair\$3 or duo or dual or bifilar\$2 or bifiliar\$2 or bifliar\$2) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil)) )	3
<input type="checkbox"/>	L67	L65 and (((twist\$3 with pair\$3 or duo or dual) or bifilar\$2 or bifiliar\$2 or bifliar\$2) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil))))	0
<input type="checkbox"/>	L66	L65 and (((RF or radiofrequency or radio-frequency or "radio frequency") same (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8")) same ((RF or radiofrequency or radio-frequency or "radio frequency") same (sigal or echo or FID or acquisition)))	0
<input type="checkbox"/>	L65	L64 and ((RF or radiofrequency or radio-frequency or "radio frequency") same (sigal or echo or FID or acquisition))	3
<input type="checkbox"/>	L64	L63 and ((RF or radiofrequency or radio-frequency or "radio frequency") same (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8"))	5
<input type="checkbox"/>	L63	L62 and ((RF or radiofrequency or radio-frequency or "radio frequency") same (coil or winding or probe or antenna))	6
<input type="checkbox"/>	L62	L58 and (((inductive or inductance or induct\$2or inductively) same (coupl\$4)) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil)) )	7
<input type="checkbox"/>	L61	L58 and (((inductive or inductance or induct\$2or inductively) same (coupl\$4)) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (conduct\$4 with (ring or loop or annulus or	2

	anulus or anular\$2 or winding or coil))) )	
<input type="checkbox"/>	L60 L58 and (((inductive or inductance or induct\$2) same (coupl\$4)) same (lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (ring or loop or annulus or anulus or anular\$2 or winding or coil))	7
<input type="checkbox"/>	L59 L58 and (((inductive or inductance or induct\$2) same (coupl\$4)) same ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)))) )	2
<input type="checkbox"/>	L58 L57 and ((inductive or inductance or induct\$2) same (coupl\$4))	9
<input type="checkbox"/>	L57 150 and ((lead\$3) same (segment or segmented or segmenting or segmentation or portion or part or section) same (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)))	11
<input type="checkbox"/>	L56 L55 and (transformer)	1
<input type="checkbox"/>	L55 L50 and (toroid\$4)	4
<input type="checkbox"/>	L54 L53 and (toroid\$4)	1
<input type="checkbox"/>	L53 L52 and (transformer)	7
<input type="checkbox"/>	L52 L51 and (coupl\$4 or transform\$4 or (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)) or toroid\$4)	111
<input type="checkbox"/>	L51 L50 and (inductive or inductance or induct\$2 or capacit\$4 or react\$4 or segment\$3)	114
<input type="checkbox"/>	L50 L49 and (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8")	120
<input type="checkbox"/>	L49 L48 and (RF or radiofrequency or radio-frequency or "radio frequency")	370
<input type="checkbox"/>	L48 L24 and ((connect or connecting or connected or connection or connectable) same ((lead\$3) with (examination or zone or area or volume or region or investigation or interest or "roi" or "voi")))	735
<input type="checkbox"/>	L47 L46 and ((connect or connecting or connected or connection or connectable) same ((lead\$3) with (examination or zone or area or volume or region or investigation or interest or "roi" or "voi")))	1
<input type="checkbox"/>	L46 L39 and (RF or radiofrequency or radio-frequency or "radio frequency")	2
<input type="checkbox"/>	L45 L44 and (RF or radiofrequency or radio-frequency or "radio frequency")	1
<input type="checkbox"/>	L44 L43 and ((connect or connecting or connected or connection or connectable) same ((lead\$3) with (examination or zone or area or volume or region or investigation or interest or "roi" or "voi")))	3
<input type="checkbox"/>	L43 L42 and (connect or connecting or connected or connection or connectable)	3
<input type="checkbox"/>	L42 L41 and ((lead\$3) with (examination or zone or area or volume or region or investigation or interest or "roi" or "voi"))	3
<input type="checkbox"/>	L41 L40 and (Wire)	3
<input type="checkbox"/>	L40 L39 and (lead\$3)	5
<input type="checkbox"/>	L39 L35 and ((heating or heated or heat or thermal or thermally or heatable) same (lead\$3) same (prevent or inhibit or inhibited or inhibiting or prevention or prevented or preventable or preventing or minimized or minimal or minimally or mnor or avoid or avoiding or avoided or precluded or precluding or	5

	preclude))	
<input type="checkbox"/>	L38 L37 and ((heating or heated or heat or thermal or thermally or heatable) same (lead\$3) same (prevent or inhibit or inhibited or inhibiting or prevention or prevented or preventable or preventing or minimized or minimal or minimally or mnor))	4
<input type="checkbox"/>	L37 L36 and ((heating or heated or heat or thermal or thermally or heatable) same (prevent or inhibit or inhibited or inhibiting or prevention or prevented or preventable or preventing or minimized or minimal or minimally or mnor))	4
<input type="checkbox"/>	L36 L35 and (prevent or inhibit or inhibited or inhibiting or prevention or prevented or preventable or preventing or minimized or minimal or minimally or mnor)	4
<input type="checkbox"/>	L35 L34 and (heating or heated or heat or thermal or thermally or heatable)	6
<input type="checkbox"/>	L34 L33 and (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8" or quarter or quarterwave or quarter-wave)	7
<input type="checkbox"/>	L33 L32 and ((two or "2" or pair or pairing or paired or duo or dual or double) with (wire or lead\$3))	62
<input type="checkbox"/>	L32 L31 and ((segment or segmented or segmenting or segmentation or portion or part or section) same (transformer) same (lead\$3) same (winding or wire))	80
<input type="checkbox"/>	L31 L24 and ((segment or segmented or segmenting or segmentation or portion or part or section) same (transformer or winding) same (lead\$3))	476
<input type="checkbox"/>	L30 L29 and ((segment or segmented or segmenting or segmentation or portion or part or section) same (transformer or winding) same (lead\$3))	1
<input type="checkbox"/>	L29 L28 and (segment or segmented or segmenting or segmentation or portion or part or section)	13
<input type="checkbox"/>	L28 L27 and (transformer)	14
<input type="checkbox"/>	L27 L26 and (lead\$3)	100
<input type="checkbox"/>	L26 L25 and (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8")	150
<input type="checkbox"/>	L25 L24 and ((twist\$3 with pair\$3) or bifilar\$2 or bifiliar\$2 or bifliar\$2)	619
<input type="checkbox"/>	L24 ((magnetic adj resonan\$2) or MRI or NMR)	245439
<input type="checkbox"/>	L23 L22 and L20	3
<input type="checkbox"/>	L22 (duerr.in.)	1221
<input type="checkbox"/>	L21 L20 and L18	3
<input type="checkbox"/>	L20 (((300/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.))	9277
<input type="checkbox"/>	L19 L18 and (twist\$3 or pair\$3 or bifilar\$2 or bifiliar\$2 or bifliar\$2)	22
<input type="checkbox"/>	L18 ((duerr.in.) and ((magnetic adj resonan\$2) or MRI or NMR))	79
<input type="checkbox"/>	L17 ((duerr.in.) and ((twist\$3 with pair\$3) or bifilar\$2 or bifiliar\$2 or bifliar\$2))	2
<input type="checkbox"/>	L16 L9 and (((inductive or inductance or induct\$2 or capacit\$4 or react\$4 or segment43) with (coupl\$4 or transform\$4 or (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)) or toroid\$4)) with ((connect\$4 or link\$4 or join\$3 or bridg\$4 or jump\$3) with (lead\$3)))	7

<input type="checkbox"/>	L15	L14 and ((wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8") with (lead\$4))	0
<input type="checkbox"/>	L14	L13 and (((inductive or inductance or induct\$2 or capacit\$4 or react\$4 or segment43) with (coupl\$4 or transform\$4 or (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)) or toroid\$4)) with ((connect\$4 or link\$4 or join\$3 or bridg\$4 or jump\$3) with (lead\$3)))	6
<input type="checkbox"/>	L13	L12 and ((inductive or inductance or induct\$2 or capacit\$4 or react\$4 or segment43) with (coupl\$4 or transform\$4 or (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)) or toroid\$4))	293
<input type="checkbox"/>	L12	L11 and ((connect\$4 or link\$4 or join\$3 or bridg\$4 or jump\$3) with (lead\$3))	909
<input type="checkbox"/>	L11	L10 and (ohm or ohmic\$4 or resist\$4 or volt\$4 or ".omega.")	2145
<input type="checkbox"/>	L10	L9 and (coupl\$4 or transform\$4 or (conduct\$4 with (ring or loop or annulus or anulus or anular\$2 or winding or coil)) or toroid\$4)	2401
<input type="checkbox"/>	L9	L7 and (wavelength\$4 or wave-length\$4 or "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8")	2502
<input type="checkbox"/>	L8	L7 and (wavelength\$4 and wave-length\$4 and "wave length\$4" or ".lamda." or ".lamda./2" or ".lamda./4" or ".lamda./8")	0
<input type="checkbox"/>	L7	L6 and (connect\$4 or link\$4 or join\$3 or bridg\$4 or jump\$3)	6503
<input type="checkbox"/>	L6	L5 and (inductive or inductance or induct\$2 or capacit\$4 or react\$4 or segment43)	6634
<input type="checkbox"/>	L5	L4 and (lead\$3)	7891
<input type="checkbox"/>	L4	L3 and (sens\$4 or receiv\$4 or reception or detect\$4)	10083
<input type="checkbox"/>	L3	L2 and (transmit\$4 or transmission or excit\$4 or excitation or send\$4 or transceiv\$4 or antenna or probe or array)	10715
<input type="checkbox"/>	L2	L1 and ((magnetic adj resonan\$2) or MRI or NMR)	15954
<input type="checkbox"/>	L1	(catheter)	124606

END OF SEARCH HISTORY

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### Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20050218897 A1

L34: Entry 1 of 7

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 5786592 A

L34: Entry 2 of 7

File: USPT

Jul 28, 1998

US-PAT-NO: 5786592

DOCUMENT-IDENTIFIER: US 5786592 A

TITLE: Pulse oximetry sensor with fiberoptic signal transmission

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hok; Bertil	Vasterang.s			SE

US-CL-CURRENT: 250/227.14; 250/227.18, 356/41, 600/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 3. Document ID: US 3153722 A

L34: Entry 3 of 7

File: USOC

Oct 20, 1964

US-PAT-NO: 3153722

DOCUMENT-IDENTIFIER: US 3153722 A

TITLE: Apparatus for determining the quantity of contaminant in a substance

DATE-ISSUED: October 20, 1964

INVENTOR-NAME: BAYLY JOHN G; STEVENS WILLIAM H

US-CL-CURRENT: 250/339.12, 250/226, 250/372, 250/565, 356/51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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☐ 4. Document ID: US 3081428 A

L34: Entry 4 of 7

File: USOC

Mar 12, 1963

US-PAT-NO: 3081428

DOCUMENT-IDENTIFIER: US 3081428 A

TITLE: Nuclear induction fluxmeter and magnet control apparatus

DATE-ISSUED: March 12, 1963

INVENTOR-NAME: FOWLER BRUCE V

US-CL-CURRENT: 324/322; 324/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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☐ 5. Document ID: US 3004166 A

L34: Entry 5 of 7

File: USOC

Oct 10, 1961

US-PAT-NO: 3004166

DOCUMENT-IDENTIFIER: US 3004166 A

TITLE: Line tracer apparatus and method

DATE-ISSUED: October 10, 1961

INVENTOR-NAME: GREENE WILLIAM J

US-CL-CURRENT: 250/202; 219/121.18, 219/121.3, 219/121.31, 219/121.34, 219/125.1,  
219/125.11, 219/68, 266/60, 318/577, 409/99

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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## 6. Document ID: US 2827546 A

L34: Entry 6 of 7

File: USOC

Mar 18, 1958

US-PAT-NO: 2827546

DOCUMENT-IDENTIFIER: US 2827546 A

TITLE: Method and device for cooling electric resistance welding machines

DATE-ISSUED: March 18, 1958

INVENTOR-NAME: FRANK FRUENGEL

US-CL-CURRENT: 219/78.02; 219/117.1, 219/56, 219/58, 219/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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## 7. Document ID: US 2066935 A

L34: Entry 7 of 7

File: USOC

Jan 5, 1937

US-PAT-NO: 2066935

DOCUMENT-IDENTIFIER: US 2066935 A

TITLE: Surge and outageproof distribution transformer

DATE-ISSUED: January 5, 1937

INVENTOR-NAME: HODNETTE JOHN K

US-CL-CURRENT: 361/37; 313/231.11, 336/12, 336/183, 336/185, 336/94, 337/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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Term	Documents
"WAVE LENGTH\$4"	0
. LAMDA.	0
. LAMDA.S	0
. LAMDA./2	0
. LAMDA./2S	0
. LAMDA./4	0
. LAMDA./4S	0
. LAMDA./8	0



.LAMDA./8S	0
QUARTER	228679
QUARTERS	50432
(L33 AND (WAVELENGTH\$4 OR WAVE-LENGTH\$4 OR "WAVE LENGTH\$4" OR ".LAMDA." OR ".LAMDA./2" OR ".LAMDA./4" OR ".LAMDA./8" OR QUARTER OR QUARTERWAVE OR QUARTER-WAVE)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

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**Search Results - Record(s) 1 through 4 of 4 returned.**

☐ 1. Document ID: US 3153722 A

L38: Entry 1 of 4

File: USOC

Oct 20, 1964

US-PAT-NO: 3153722

DOCUMENT-IDENTIFIER: US 3153722 A

TITLE: Apparatus for determining the quantity of contaminant in a substance

DATE-ISSUED: October 20, 1964

INVENTOR-NAME: BAYLY JOHN G; STEVENS WILLIAM H

US-CL-CURRENT: [250/339.12](#), [250/226](#), [250/372](#), [250/565](#), [356/51](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 2. Document ID: US 3081428 A

L38: Entry 2 of 4

File: USOC

Mar 12, 1963

US-PAT-NO: 3081428

DOCUMENT-IDENTIFIER: US 3081428 A

TITLE: Nuclear induction fluxmeter and magnet control apparatus

DATE-ISSUED: March 12, 1963

INVENTOR-NAME: FOWLER BRUCE V

US-CL-CURRENT: [324/322](#); [324/310](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 3. Document ID: US 2827546 A

L38: Entry 3 of 4

File: USOC

Mar 18, 1958

US-PAT-NO: 2827546

DOCUMENT-IDENTIFIER: US 2827546 A

TITLE: Method and device for cooling electric resistance welding machines

DATE-ISSUED: March 18, 1958

INVENTOR-NAME: FRANK FRUENGEL

US-CL-CURRENT: 219/78.02; 219/117.1, 219/56, 219/58, 219/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 4. Document ID: US 2066935 A

L38: Entry 4 of 4

File: USOC

Jan 5, 1937

US-PAT-NO: 2066935

DOCUMENT-IDENTIFIER: US 2066935 A

TITLE: Surge and outageproof distribution transformer

DATE-ISSUED: January 5, 1937

INVENTOR-NAME: HODNETTE JOHN K

US-CL-CURRENT: 361/37; 313/231.11, 336/12, 336/183, 336/185, 336/94, 337/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Term	Documents
HEATING	2254742
HEATINGS	1284
HEATED	1847878
HEATEDS	3
HEAT	3655375
HEATS	141095
THERMAL	1537541
THERMALS	363
THERMALLY	449222
THERMALLIES	0
THERMALLYS	1
(L37 AND ((HEATING OR HEATED OR HEAT OR THERMAL OR THERMALLY OR HEATABLE) SAME (LEAD\$3) SAME (PREVENT OR INHIBIT OR INHIBITED OR INHIBITING OR PREVENTION OR PREVENTED OR PREVENTABLE OR PREVENTING OR	4

MINIMIZED OR MINIMAL OR MINIMALLY OR MNOR) ) ) .PGPB, USPT, USOC, EPAB, JPAB, DWPI, TBD.	
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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20050218897 A1

L45: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Term	Documents
RF	381904
RFS	2613
RADIOFREQUENCY	13756
RADIOFREQUENCIES	271
RADIOFREQUENCYS	0
RADIO-FREQUENCY	33309
RADIO-FREQUENCIES	352
RADIO-FREQUENCYS	0
"RADIO FREQUENCY"	0
(44 AND (RADIOFREQUENCY OR RADIO-FREQUENCY OR RF OR "RADIO FREQUENCY")) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
(L44 AND (RF OR RADIOFREQUENCY OR RADIO-FREQUENCY	

OR "RADIO FREQUENCY") ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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### Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20050218897 A1

L46: Entry 1 of 2

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 3081428 A

L46: Entry 2 of 2

File: USOC

Mar 12, 1963

US-PAT-NO: 3081428  
DOCUMENT-IDENTIFIER: US 3081428 A

TITLE: Nuclear induction fluxmeter and magnet control apparatus

DATE-ISSUED: March 12, 1963

INVENTOR-NAME: FOWLER BRUCE V

US-CL-CURRENT: 324/322; 324/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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Term	Documents
RF	381904
RFS	2613
RADIOFREQUENCY	13756
RADIOFREQUENCIES	271
RADIOFREQUENCYS	0
RADIO-FREQUENCY	33309
RADIO-FREQUENCIES	352
RADIO-FREQUENCYS	0
"RADIO FREQUENCY"	0
(39 AND (RADIOFREQUENCY OR RADIO-FREQUENCY OR RF OR "RADIO FREQUENCY")) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	2
(L39 AND (RF OR RADIOFREQUENCY OR RADIO-FREQUENCY OR "RADIO FREQUENCY")) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	2

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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20050218897 A1

L47: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Term	Documents
CONNECT	2252419
CONNECTS	993090
CONNECTING	2863569
CONNECTINGS	146
CONNECTED	7148223
CONNECTEDS	15
CONNECTION	3930560
CONNECTIONS	981306
CONNECTABLE	163201
CONNECTABLES	22
EXAMINATION	294231
(L46 AND ((CONNECT OR CONNECTING OR CONNECTED	

OR CONNECTION OR CONNECTABLE) SAME ((LEAD\$3) WITH (EXAMINATION OR ZONE OR AREA OR VOLUME OR REGION OR INVESTIGATION OR INTEREST OR "ROI" OR "VOI")))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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### Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20060217782 A1

L53: Entry 1 of 7

File: PGPB

Sep 28, 2006

PGPUB-DOCUMENT-NUMBER: 20060217782

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060217782 A1

TITLE: Method and system for cortical stimulation to provide adjunct (ADD-ON) therapy for stroke, tinnitus and other medical disorders using implantable and external components

PUBLICATION-DATE: September 28, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Boveja; Birinder R.	Milwaukee	WI	US
Widhany; Angely	Milwaukee	WI	US

US-CL-CURRENT: 607/45

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw. De
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☐ 2. Document ID: US 20060129205 A1

L53: Entry 2 of 7

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060129205

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060129205 A1

TITLE: Method and system for cortical stimulation with rectangular and/or complex electrical pulses to provide therapy for stroke and other neurological disorders

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Boveja; Birinder R.	Milwaukee	WI	US
Widhany; Angely	Milwaukee	WI	US

US-CL-CURRENT: 607/45

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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3. Document ID: US 20050218897 A1

L53: Entry 3 of 7

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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4. Document ID: US 6982431 B2

L53: Entry 4 of 7

File: USPT

Jan 3, 2006

US-PAT-NO: 6982431  
DOCUMENT-IDENTIFIER: US 6982431 B2

TITLE: Sample analysis systems

DATE-ISSUED: January 3, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030127609 A1	July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Modlin; Douglas N.	Palo Alto	CA		US
Edwards; Glenn R.	Palo Alto	CA		US
Owicki; John C.	Palo Alto	CA		US
Taylor; Michael T.	Newark	CA		US
Marquiss; Samuel A.	Santa Clara	CA		US

US-CL-CURRENT: 250/573; 250/225

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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☐ 5. Document ID: US 6608480 B1

L53: Entry 5 of 7

File: USPT

Aug 19, 2003

US-PAT-NO: 6608480

DOCUMENT-IDENTIFIER: US 6608480 B1

TITLE: RF coil for homogeneous quadrature transmit and multiple channel receive

DATE-ISSUED: August 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weyers; Daniel J.	Wauwatosa	WI		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 6. Document ID: US 6045877 A

L53: Entry 6 of 7

File: USPT

Apr 4, 2000

US-PAT-NO: 6045877

DOCUMENT-IDENTIFIER: US 6045877 A

TITLE: Pyrolytic chemical vapor deposition of silicone films

DATE-ISSUED: April 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gleason; Karen K.	Lexington	MA		
Kwan; Michael C.	Mountain View	CA		

US-CL-CURRENT: 427/522; 427/255.18, 427/397.7, 427/515, 427/534, 427/535

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 7. Document ID: WO 2004038443 A1

L53: Entry 7 of 7

File: EPAB

May 6, 2004

PUB-NO: WO2004038443A1

DOCUMENT-IDENTIFIER: WO 2004038443 A1

TITLE: CONNECTION LEAD FOR AN ELECTRICAL ACCESSORY DEVICE OF AN MRI SYSTEM

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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Term	Documents
TRANSFORMER	411765
TRANSFORMERS	97976
(52 AND TRANSFORMER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	7
(L52 AND (TRANSFORMER) ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	7

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☐ 1. Document ID: US 20050218897 A1

L54: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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Term	Documents
TOROID\$4	0
TOROID	12653
TOROIDA	80
TOROIDABLE	2
TOROIDABY	1
TOROIDAD	2
TOROIDADLY	1
TOROIDAE	1
TOROIDAF	3
TOROIDAFFY	2
TOROIDAFLY	3
(L53 AND	1

(TOROID\$4) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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**Search Results - Record(s) 1 through 4 of 4 returned.**

☐ 1. Document ID: US 20060252314 A1

L55: Entry 1 of 4

File: PGPB

Nov 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060252314

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060252314 A1

TITLE: Electrical lead for an electronic device such as an implantable device

PUBLICATION-DATE: November 9, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Ferhanoglu; Onur	Istanbul		TR

US-CL-CURRENT: [439/876](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20050218897 A1

L55: Entry 2 of 4

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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## 3. Document ID: US 20030080740 A1

L55: Entry 3 of 4

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030080740  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030080740 A1

TITLE: Rounded-conductor NMR RF resonators

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
de Swiet, Thomas	Redwood City	CA	US
Romo, Marco A.	Castro Valley	CA	US
Winward, Nancy	Mipitas	CA	US

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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## 4. Document ID: US 6593743 B2

L55: Entry 4 of 4

File: USPT

Jul 15, 2003

US-PAT-NO: 6593743  
DOCUMENT-IDENTIFIER: US 6593743 B2  
**\*\* See image for Certificate of Correction \*\***

TITLE: Rounded-conductor NMR RF resonators

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Swiet; Thomas	Redwood City	CA		
Romo; Marco A.	Castro Valley	CA		
Winward; Nancy	Milpitas	CA		

US-CL-CURRENT: 324/318; 324/309, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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Term

Documents

TOROID\$4

0

TOROID	12653
TOROIDA	80
TOROIDABLE	2
TOROIDABY	1
TOROIDAD	2
TOROIDADLY	1
TOROIDAE	1
TOROIDAF	3
TOROIDAFFY	2
TORIDAFLY	3
(L50 AND (TOROID\$4)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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**Search Results** - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050218897 A1

L56: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Term	Documents
TRANSFORMER	411765
TRANSFORMERS	97976
(55 AND TRANSFORMER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1
(L55 AND (TRANSFORMER) ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1

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**Search Results - Record(s) 1 through 11 of 11 returned.**

☐ 1. Document ID: US 20060122493 A1

L57: Entry 1 of 11

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122493

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122493 A1

TITLE: Evaluating the urethra and the periurethral Tissues

PUBLICATION-DATE: June 8, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Quick; Harald Hartmut	Essen-Werden	MD	DE
Karmarkar; Parag	Elliott City		US

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 20050222658 A1

L57: Entry 2 of 11

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050222658

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050222658 A1

TITLE: Lead electrode for use in an MRI-safe implantable medical device

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hoegh, Thomas Barry	Edina	MN	US
Bolea, Stephen L.	Watertown	MN	US
Wahlstrand, Carl D.	Lino Lakes	MN	US
Hrdlicka, Gregory A.	Plymouth	MN	US
Olsen, James M.	Plymouth	MN	US

US-CL-CURRENT: 607/116

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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## 3. Document ID: US 20050218897 A1

L57: Entry 3 of 11

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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## 4. Document ID: US 20030080740 A1

L57: Entry 4 of 11

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030080740

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030080740 A1

TITLE: Rounded-conductor NMR RF resonators

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
de Swiet, Thomas	Redwood City	CA	US
Romo, Marco A.	Castro Valley	CA	US
Winward, Nancy	Mipitas	CA	US

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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## 5. Document ID: US 20020040185 A1

L57: Entry 5 of 11

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar, Ergin	Columbia	MD	US
Quick, Harald	Essen-Werden	MD	DE
Karmarkar, Parag	Elliott City		US

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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## 6. Document ID: US 6898454 B2

L57: Entry 6 of 11

File: USPT

May 24, 2005

US-PAT-NO: 6898454  
DOCUMENT-IDENTIFIER: US 6898454 B2

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

DATE-ISSUED: May 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar; Ergin	Columbia	MD		
Quick; Harald Hartmann	Essen-Werden			DE
Karmarkar; Parag	Elliot City	MD		

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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## 7. Document ID: US 6593743 B2

L57: Entry 7 of 11

File: USPT

Jul 15, 2003

US-PAT-NO: 6593743  
DOCUMENT-IDENTIFIER: US 6593743 B2

**\*\* See image for Certificate of Correction \*\***TITLE: Rounded-conductor NMR RF resonators

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Swiet; Thomas	Redwood City	CA		
Romo; Marco A.	Castro Valley	CA		
Winward; Nancy	Milpitas	CA		

US-CL-CURRENT: 324/318; 324/309, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 8. Document ID: US 6175237 B1

L57: Entry 8 of 11

File: USPT

Jan 16, 2001

US-PAT-NO: 6175237

DOCUMENT-IDENTIFIER: US 6175237 B1

TITLE: Center-fed paralleled coils for MRI

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Entzminger, Jr.; George	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
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☐ 9. Document ID: US 4712067 A

L57: Entry 9 of 11

File: USPT

Dec 8, 1987

US-PAT-NO: 4712067

DOCUMENT-IDENTIFIER: US 4712067 A

TITLE: R.F. coil system for generating and/or receiving alternating magnetic fields

DATE-ISSUED: December 8, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roschmann; Peter	Hamburg			DE
Simon; Howard E.	Monroe	CT		

US-CL-CURRENT: 324/318; 324/322, 333/219, 335/299



Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 10. Document ID: US 3402346 A

L57: Entry 10 of 11

File: USOC

Sep 17, 1968

US-PAT-NO: 3402346

DOCUMENT-IDENTIFIER: US 3402346 A

TITLE: Coaxial receiver coil and capacitor structure for probes of uhf gyromagnetic spectrometers

DATE-ISSUED: September 17, 1968

INVENTOR-NAME: BAKER GEORGE A

US-CL-CURRENT: 324/322; 324/310, 334/81

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	--------

☐ 11. Document ID: US 3225249 A

L57: Entry 11 of 11

File: USOC

Dec 21, 1965

US-PAT-NO: 3225249

DOCUMENT-IDENTIFIER: US 3225249 A

TITLE: Magnetron having evacuated discharge sub-assembly united with unevacuated magnetic and resonant cavity structure

DATE-ISSUED: December 21, 1965

INVENTOR-NAME: KRUG JR GEORGE A

US-CL-CURRENT: 315/39.71; 174/152R, 313/156, 313/158, 315/39.65, 315/39.77, 333/81R, 335/210, 338/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Clear

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Bkwd Refs

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Term	Documents
SEGMENT	647517
SEGMENTS	568015
SEGMENTED	109057
SEGMENTEDS	0
SEGMENTING	22209

SEGMENTINGS	0
SEGMENTATION	34076
SEGMENTATIONS	1161
PORTION	6391721
PORTIONS	3365786
PART	8620101
(L50 AND ((LEAD\$3) SAME (SEGMENT OR SEGMENTED OR SEGMENTING OR SEGMENTATION OR PORTION OR PART OR SECTION) SAME (CONDUCT\$4 WITH (RING OR LOOP OR ANNULUS OR ANULUS OR ANULAR\$2 OR WINDING OR COIL))) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

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### Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20060122493 A1

L58: Entry 1 of 9

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122493

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122493 A1

TITLE: Evaluating the urethra and the periurethral Tissues

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Quick; Harald Hartmut	Essen-Werden	MD	DE
Karmarkar; Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 2. Document ID: US 20050218897 A1

L58: Entry 2 of 9

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20030080740 A1

L58: Entry 3 of 9

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030080740

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030080740 A1

TITLE: Rounded-conductor NMR RF resonators

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
de Swiet, Thomas	Redwood City	CA	US
Romo, Marco A.	Castro Valley	CA	US
Winward, Nancy	Mipitas	CA	US

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 4. Document ID: US 20020040185 A1

L58: Entry 4 of 9

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar, Ergin	Columbia	MD	US
Quick, Harald	Essen-Werden	MD	DE
Karmarkar, Parag	Elliott City		US

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 5. Document ID: US 6898454 B2

L58: Entry 5 of 9

File: USPT

May 24, 2005

US-PAT-NO: 6898454

DOCUMENT-IDENTIFIER: US 6898454 B2

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

DATE-ISSUED: May 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar; Ergin	Columbia	MD		
Quick; Harald Hartmann	Essen-Werden			DE
Karmarkar; Parag	Elliot City	MD		

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 6. Document ID: US 6593743 B2

L58: Entry 6 of 9

File: USPT

Jul 15, 2003

US-PAT-NO: 6593743

DOCUMENT-IDENTIFIER: US 6593743 B2

**\*\* See image for Certificate of Correction \*\***TITLE: Rounded-conductor NMR RF resonators

DATE-ISSUED: July 15, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
de Swiet; Thomas	Redwood City	CA		
Romo; Marco A.	Castro Valley	CA		
Winward; Nancy	Milpitas	CA		

US-CL-CURRENT: 324/318; 324/309, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
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☐ 7. Document ID: US 6175237 B1

L58: Entry 7 of 9

File: USPT

Jan 16, 2001

US-PAT-NO: 6175237

DOCUMENT-IDENTIFIER: US 6175237 B1

TITLE: Center-fed paralleled coils for MRI

DATE-ISSUED: January 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Entzminger, Jr.; George	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
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☐ 8. Document ID: US 3402346 A

L58: Entry 8 of 9

File: USOC

Sep 17, 1968

US-PAT-NO: 3402346

DOCUMENT-IDENTIFIER: US 3402346 A

TITLE: Coaxial receiver coil and capacitor structure for probes of uhf gyromagnetic spectrometers

DATE-ISSUED: September 17, 1968

INVENTOR-NAME: BAKER GEORGE A

US-CL-CURRENT: 324/322; 324/310, 334/81

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
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☐ 9. Document ID: US 3225249 A

L58: Entry 9 of 9

File: USOC

Dec 21, 1965

US-PAT-NO: 3225249

DOCUMENT-IDENTIFIER: US 3225249 A

TITLE: Magnetron having evacuated discharge sub-assembly united with unevacuated magnetic and resonant cavity structure

DATE-ISSUED: December 21, 1965

INVENTOR-NAME: KRUG JR GEORGE A

US-CL-CURRENT: 315/39.71; 174/152R, 313/156, 313/158, 315/39.65, 315/39.77, 333/81R, 335/210, 338/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
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Clear

Generate Collection

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Bkwd Refs

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Term

Documents

INDUCTIVE	152184
INDUCTIVES	6
INDUCTANCE	167851
INDUCTANCES	27162
INDUCT\$2	0
INDUCT	7748
INDUCTA	1246
INDUCTAA	3
INDUCTAD	5
INDUCTAI	199
INDUCTAJ	3
(L57 AND ((INDUCTIVE OR INDUCTANCE OR INDUCT\$2) SAME (COUPL\$4)) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	9

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### Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 3402346 A

L59: Entry 1 of 2

File: USOC

Sep 17, 1968

US-PAT-NO: 3402346

DOCUMENT-IDENTIFIER: US 3402346 A

TITLE: Coaxial receiver coil and capacitor structure for probes of uhf gyromagnetic spectrometers

DATE-ISSUED: September 17, 1968

INVENTOR-NAME: BAKER GEORGE A

US-CL-CURRENT: 324/322; 324/310, 334/81

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 3225249 A

L59: Entry 2 of 2

File: USOC

Dec 21, 1965

US-PAT-NO: 3225249

DOCUMENT-IDENTIFIER: US 3225249 A

TITLE: Magnetron having evacuated discharge sub-assembly united with unevacuated magnetic and resonant cavity structure

DATE-ISSUED: December 21, 1965

INVENTOR-NAME: KRUG JR GEORGE A

US-CL-CURRENT: 315/39.71; 174/152R, 313/156, 313/158, 315/39.65, 315/39.77, 333/81R, 335/210, 338/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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Term	Documents
INDUCTIVE	152184



INDUCTIVES	6
INDUCTANCE	167851
INDUCTANCES	27162
SEGMENT	647517
SEGMENTS	568015
SEGMENTED	109057
SEGMENTEDS	0
SEGMENTING	22209
SEGMENTINGS	0
SEGMENTATION	34076
(L58 AND (((INDUCTIVE OR INDUCTANCE OR INDUCT\$2) SAME (COUPL\$4)) SAME ((LEAD\$3) SAME (SEGMENT OR SEGMENTED OR SEGMENTING OR SEGMENTATION OR PORTION OR PART OR SECTION) SAME (CONDUCT\$4 WITH (RING OR LOOP OR ANNULUS OR ANULUS OR ANULAR\$2 OR WINDING OR COIL))) )).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20060122493 A1

L64: Entry 1 of 5

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122493

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122493 A1

TITLE: Evaluating the urethra and the periurethral Tissues

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Quick; Harald Hartmut	Essen-Werden	MD	DE
Karmarkar; Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20050218897 A1

L64: Entry 2 of 5

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Record List Display

Apr 4, 2002

☐ 3. Document ID: US 20020040185 A1  
L64: Entry 3 of 5

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020040185  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:  
NAME  
Atalar, Ergin  
Quick, Harald  
Karmarkar, Parag

CITY  
Columbia  
Essen-Werden  
Elliot City

STATE COUNTRY  
MD US  
MD DE  
MD US

US-CL-CURRENT: 600/423

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw D

May 24, 2005

☐ 4. Document ID: US 689845 B2  
L64: Entry 4 of 5

File: USPT

US-PAT-NO: 6898454  
DOCUMENT-IDENTIFIER: US 689845 B2

TITLE: Systems and methods forevaluating the urethra and the periurethral tissues

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:  
NAME  
Atalar, Ergin  
Quick, Harald Hartmann  
Karmarkar, Parag

CITY  
Columbia  
Essen-Werden  
Elliot City

STATE ZIP CODE COUNTRY  
MD DE  
MD

US-CL-CURRENT: 600/410

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw D

Jan 16, 2001

☐ 5. Document ID: US 6175237 B1  
L64: Entry 5 of 5

File: USPT

US-PAT-NO: 6175237  
DOCUMENT-IDENTIFIER: US 6175237 B1

http://jupiter.9000/bin/gate.exe?f=TOC&state=hkcrja.70&ref=64&dbname=PGPB,USPT,US... 2/11/07

TITLE: Center-fed paralleled coils for MRI

DATE-ISSUED: January 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Entzminger, Jr.; George	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	K/MC	Draw. D
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Term	Documents
RF	381904
RFS	2613
RADIOFREQUENCY	13756
RADIOFREQUENCIES	271
RADIOFREQUENCYS	0
RADIO-FREQUENCY	33309
RADIO-FREQUENCIES	352
RADIO-FREQUENCYS	0
"RADIO FREQUENCY"	0
"WAVE LENGTH\$4"	0
.LAMDA.	0
(L63 AND ((RF OR RADIOFREQUENCY OR RADIO-FREQUENCY OR "RADIO FREQUENCY") SAME (WAVELENGTH\$4 OR WAVELENGTH\$4 OR "WAVE LENGTH\$4" OR ".LAMDA." OR ".LAMDA./2" OR ".LAMDA./4" OR ".LAMDA./8"))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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### Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20060122493 A1

L65: Entry 1 of 3

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122493

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122493 A1

TITLE: Evaluating the urethra and the periurethral Tissues

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Quick; Harald Hartmut	Essen-Werden	MD	DE
Karmarkar; Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 20020040185 A1

L65: Entry 2 of 3

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar, Ergin	Columbia	MD	US
Quick, Harald	Essen-Werden	MD	DE
Karmarkar, Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 6898454 B2

L65: Entry 3 of 3

File: USPT

May 24, 2005

US-PAT-NO: 6898454

DOCUMENT-IDENTIFIER: US 6898454 B2

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

DATE-ISSUED: May 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar; Ergin	Columbia	MD		
Quick; Harald Hartmann	Essen-Werden			DE
Karmarkar; Parag	Elliot City	MD		

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Clear

Generate Collection

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Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
RF	381904
RFS	2613
RADIOFREQUENCY	13756
RADIOFREQUENCIES	271
RADIOFREQUENCYS	0
RADIO-FREQUENCY	33309
RADIO-FREQUENCIES	352
RADIO-FREQUENCYS	0
"RADIO FREQUENCY"	0
SIGAL	2449
SIGALS	319
(L64 AND ((RF OR RADIOFREQUENCY OR RADIO-FREQUENCY OR "RADIO FREQUENCY") SAME (SIGAL OR ECHO OR FID OR ACQUISITION))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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### Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20060122493 A1

L70: Entry 1 of 3

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122493

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122493 A1

TITLE: Evaluating the urethra and the periurethral Tissues

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Quick; Harald Hartmut	Essen-Werden	MD	DE
Karmarkar; Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20020040185 A1

L70: Entry 2 of 3

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar, Ergin	Columbia	MD	US
Quick, Harald	Essen-Werden	MD	DE
Karmarkar, Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 6898454 B2

L70: Entry 3 of 3

File: USPT

May 24, 2005

US-PAT-NO: 6898454

DOCUMENT-IDENTIFIER: US 6898454 B2

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

DATE-ISSUED: May 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar; Ergin	Columbia	MD		
Quick; Harald Hartmann	Essen-Werden			DE
Karmarkar; Parag	Elliot City	MD		

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
CATHETER	113576
CATHETERS	47021
(69 AND CATHETER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	3
(L69 AND (CATHETER) ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	3

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**Search Results - Record(s) 1 through 4 of 4 returned.**

☐ 1. Document ID: US 20060122493 A1

L74: Entry 1 of 4

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122493

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122493 A1

TITLE: Evaluating the urethra and the periurethral Tissues

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar; Ergin	Columbia	MD	US
Quick; Harald Hartmut	Essen-Werden	MD	DE
Karmarkar; Parag	Elliott City		US

US-CL-CURRENT: [600/423](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 2. Document ID: US 20050218897 A1

L74: Entry 2 of 4

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 3. Document ID: US 20020040185 A1

L74: Entry 3 of 4

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040185  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020040185 A1

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atalar, Ergin	Columbia	MD	US
Quick, Harald	Essen-Werden	MD	DE
Karmarkar, Parag	Elliott City		US

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 4. Document ID: US 6898454 B2

L74: Entry 4 of 4

File: USPT

May 24, 2005

US-PAT-NO: 6898454  
DOCUMENT-IDENTIFIER: US 6898454 B2

TITLE: Systems and methods for evaluating the urethra and the periurethral tissues

DATE-ISSUED: May 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atalar, Ergin	Columbia	MD		
Quick, Harald Hartmann	Essen-Werden			DE
Karmarkar, Parag	Elliot City	MD		

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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Term	Documents
CATHETER	113576

CATHETERS	47021
(73 AND CATHETER) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L73 AND (CATHETER) ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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☐ 1. Document ID: US 20050218897 A1

L75: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Term	Documents
TRANSFORMER	411765
TRANSFORMERS	97976
(74 AND TRANSFORMER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1
(L74 AND (TRANSFORMER) ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1

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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20050218897 A1

L77: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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Term	Documents
INDUCTIVE	152184
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INDUCTANCE	167851
INDUCTANCES	27162
INDUCTIVELY	54154
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L77: Entry 1 of 1

File: PGPB

Oct 6, 2005

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri systemAbstract Paragraph:

A magnetic resonance imaging apparatus is provided with one or more electrical accessory devices, for example, catheters (10) or RF body coils (6), which are intended for use during the examination of an object, as well as with a connection lead (13) which is arranged so as to extend through an examination zone (1) of the magnetic resonance imaging apparatus, which zone can be exposed to an RF field, and to connect the accessory device to a connection unit (12). In order to avoid heating of the connection lead (13) due to currents induced in the connection lead by the RF field, which currents could lead to injury of a patient or damage of the accessory device or the connection unit (12), the connection lead (13) comprises at least one lead segment (131, 132, . . . ) which has a length which is limited by at least one inductive coupling element, e.g. a transformer (141, 142, . . . ; 161, 162, . . . ) and is unequal to  $n\lambda/2$ , where  $\lambda$  denotes the RF wavelength and  $n=1, 2, 3, \dots$

Summary of Invention Paragraph:

[0001] The invention relates to a magnetic resonance imaging apparatus which is provided with one or more electrical accessory devices such as, for example, RF body coils or catheters with coil elements which are intended for use during the examination of a patient or other object, as well as with a connection lead which is to be guided through an examination zone of the magnetic resonance imaging apparatus, which zone can be exposed to an RF field, and which lead is intended to connect the accessory device to a connection unit such as, for example, a power supply or control unit.

Summary of Invention Paragraph:

[0002] A magnetic resonance (MR) imaging apparatus is used in particular for the examination and treatment of patients. The nuclear spins of the object to be examined are then aligned by a steady main magnetic field ( $B_{sub.0}$  field) and are excited by RF pulses ( $B_{sub.1}$  field). The relaxation signals thus formed are exposed to gradient magnetic fields for the purpose of localization and are received in order to form in known manner therefrom an image of the tissue examined.

Summary of Invention Paragraph:

[0004] RF coil systems serve for the transmission of the RF signals and the reception of the relaxation signals. In addition to the RE coil systems which are permanently built into the MR imaging apparatus, use is also made of RF body coils which can be flexibly arranged, for example, as a sleeve or pad around or on the region to be examined.

Summary of Invention Paragraph:

[0005] Furthermore, use is made of catheters which are introduced into the patient, for example, in order to take a sample of tissue during the imaging and which comprise a coil element, an oscillator or the like at the area of their tip for the

purpose of localization in the image formed.

Summary of Invention Paragraph:

[0006] Accessory devices of this kind and other kinds are to be connected, via an electrical connection lead, to a connection unit, notably a power supply, a receiving device and/or a control device, which is situated outside the examination zone.

Summary of Invention Paragraph:

[0007] A problem in this respect is posed by the fact that the electrical field generated by the RF coil systems induces RF currents in the electrical connection lead leading to the relevant accessory device; these currents involve not only the risk of disturbances or destruction of the accessory device and the connection unit, but notably can give rise to substantial heating of the connection lead and, in the case of body coils and catheters, to burning of the patient when the leads are too close to the patient.

Summary of Invention Paragraph:

[0008] U.S. Pat. No. 6,284,971 discloses various coaxial cables for use in magnetic resonance imaging where the risk of burning of a user is to be avoided by a different configuration of the outer insulation of the cable. This outer insulation consists of a cylindrical inner shielding portion which encloses the conductor as well as of a segmented outer shielding portion, which portions are connected to one another. Between these shielding portions there may be situated a dielectric material having a comparatively high relative permittivity. In other embodiments conductive elements are provided at the ends of the segmented outer shielding portions, or such ends are connected to the inner shielding portion via a capacitor.

Summary of Invention Paragraph:

[0009] Cable structures of this kind, however, are comparatively voluminous, complex and expensive and the results that can be achieved thereby in respect of suppression of signals induced by the RF pulses are often inadequate, in particular in the case of high RF field strengths.

Summary of Invention Paragraph:

[0010] Therefore, it is a general object of the invention to provide a possibility of avoiding at least substantially the risk to a patient which is caused by the heating of leads guided through an examination zone of a magnetic resonance imaging apparatus.

Summary of Invention Paragraph:

[0011] It is notably an object to provide a magnetic resonance imaging apparatus with one or more accessory devices, such as RF body coils and catheters, in which the currents induced by RF pulses (B.sub.1 field) in the connection leads leading to these accessory devices do not constitute a risk for the patient or the accessory device or the connection unit.

Summary of Invention Paragraph:

[0012] It is also an object to provide an accessory device of the kind set forth with an electrical connection lead which enables an at least substantially disturbance-free connection to be established with a connection unit, for example, a power supply device, receiving device and/or control device, during use in an examination zone of an MR imaging apparatus, that is, without the risk of burning of a patient by the connection lead or of damaging of the connection unit by RF currents induced in the connection lead.

Summary of Invention Paragraph:

[0013] The object is achieved in conformity with claim 1 by means of a magnetic resonance imaging apparatus which is provided with at least one electrical



accessory device for use during the examination of an object, as well as with a connection lead which is to be guided through an examination zone of the magnetic resonance imaging apparatus, which zone can be exposed to an RF field, and which lead is intended to connect the accessory device to a connection unit, at least one lead segment, having a length which is limited by at least one inductive coupling element and is unequal to  $n \cdot \lambda / 2$ , being connected in the connection lead, where  $\lambda$  denotes the RF wavelength and  $n=1, 2, 3, \dots$ .

Summary of Invention Paragraph:

[0014] The object is also achieved by means of an RF body coil acting as an accessory device in conformity with claim 10, and by means of a catheter with a transmission and/or receiving unit acting as an accessory device in conformity with claim 11.

Summary of Invention Paragraph:

[0015] Special advantages of these solutions consist inter alia in that the endangering of the patient by heating of the connection lead is reliably precluded for practically all field strengths of the RF field so that the connection lead can be installed directly in the bed of the patient. The risk of damaging of a connection unit connected to the connection lead, notably by RF currents induced in the connection lead, is at least substantially precluded. Furthermore, in comparison with other solutions, for example, an optical transmission link with optical fibers, significantly fewer modifications of the components to be connected are required. Finally, the connection lead in accordance with the invention can also be realized so as to have a very small cross-section (for example, less than 2 mm); this is of importance in particular with a view to the application involving catheters.

Summary of Invention Paragraph:

[0018] The claims 3 to 5 relate to preferred embodiments of the inductive coupling element, whereas claim 6 discloses preferred embodiments of the connection lead.

Detail Description Paragraph:

[0032] Planar or at least approximately planar RF conductor structures (surface resonators) in the form of RF transmission coils 4 serve to generate RF pulses (B.sub.1 field) of the MR frequency whereby the nuclear spins are excited in the tissue to be examined, said RF transmission coils being arranged on the respective magnet systems 2 and 3. RF receiving coils 5 serve to pick up subsequent relaxation events in the tissue; these coils may also be formed by surface resonators provided on one of the magnet systems 2, 3. A common RF surface resonator can also be used for transmission and reception if it is suitably switched over, or the two RF surface resonators 4, 5 can serve for the alternating transmission and reception in common.

Detail Description Paragraph:

[0034] Electrical accessory devices are required for given examinations. Such devices are, for example, RF body coils 6 which are used in addition to or as an alternative for the planar RF receiving coils 5 and which are arranged as RF receiving coils directly on the patient P or the zone to be examined. These RF body coils 6 are generally constructed as flexible pads or sleeves.

Detail Description Paragraph:

[0035] Furthermore, in order to carry out the treatment on the patient P or to extract a tissue sample or to determine tissue parameters, use is often made of a catheter 10 which is introduced into the patient and whose position is to be visualized on a display screen.

Detail Description Paragraph:

[0037] In the case of a passive method, for example as described in WO 99/19739, one or more small resonant oscillatory circuits on the tip of the catheter can be

made visible in the MR image because of the fact that they lead to an increase of the RF field (B.sub.1 field) in their direct vicinity during MR imaging, and hence also increase the magnetization of the neighboring nuclear spins. The transmission and/or receiving unit 11 is then formed by a receiving coil in the simplest case. However, it may additionally comprise sensors which pick up given properties of the surrounding tissue.

Detail Description Paragraph:

[0038] In the case of an active method it is possible to switch between two modes of operation in an alternating fashion, for example, by means of a switching unit 41 which is connected to the catheter 10 by way of a first output A and to the RF transmission coils 4 by means of a second output B. In the first mode of operation an MR image is generated in known manner by means of the MR apparatus, whereas in the second mode of operation a local nuclear magnetization is excited, using an activated transmission and/or receiving unit 11 which is arranged on the tip of the catheter, by transmission of RF pulses, the resultant relaxation events being received by the RF receiving coils 5, 6. The signal received itself serves to reproduce the position of the tip of the catheter in the MR image.

Detail Description Paragraph:

[0039] FIG. 2 is a diagrammatic representation of an accessory device in the form of a catheter. On the tip of the catheter (or in a location at a slight distance therefrom) there is arranged a transmission and/or receiving unit 11, for example, in the form of a microchip on which the necessary components (and possibly also the sensors) are realized. At the end of the catheter which is situated outside the patient there is provided a connection unit 12 in the form of a power supply unit and/or a receiving device and/or a control device which is connected, via a connection lead 13 which is guided through the catheter, to the transmission and/or receiving unit 11 and via which the transmission and/or receiving unit 11 is activated and possibly the measuring values from the sensors are conducted.

Detail Description Paragraph:

[0040] In the case of an accessory device in the form of RF body coils 6, such coils are also connected, via an electrical connection lead 13, to a corresponding connection unit 12 (power supply, receiving device and/or control device).

Detail Description Paragraph:

[0042] The RF pulses (B.sub.1 field) transmitted by the RF transmission coils 4 induce, for example, in an RF body coil 6 as well as in the part of the connection lead 13 which extends through the field of the RF transmission coils 4, a common mode signal which is generated by a first voltage source U.sub.1 in the equivalent diagram. The common mode signal causes a corresponding first current I.sub.1 in the connection lead 13. The signals induced by the subsequent MR relaxation events in the RF body coil 6 (differential mode signals) are represented by a second voltage source U.sub.2 (useful voltage) in the equivalent diagram and give rise to a second current I.sub.2 in the connection lead 13.

Detail Description Paragraph:

[0043] The connection lead 13 has a plurality of lead segments 131, 132, . . . . The length of these segments is unequal to  $n \cdot \lambda / 2$  ( $n=1, 2, 3, \dots$ ), where  $\lambda$  is the wavelength with which the RF pulses are transmitted. The segments 131, 132, . . . are, therefore, non-resonant for the common mode signal. The length of the segments is preferably as small as possible and lies notably between  $\lambda / 4$  and  $\lambda / 8$ . Respective transformers 141, 142, . . . , are provided for connecting the individual lead segments 131, 132, . . . to one another; the differential mode signals can be transmitted via said transformers so as to be conducted via the connection lead 13. The transformers 141, 142 are proportioned such that the coupling capacitance C between the primary side and the secondary side is as small as possible and preferably not smaller than 250 Ohm (or larger than 250 Ohm in an absolute sense).

Detail Description Paragraph:

[0044] A significant temperature increase at the area of the patient is thus avoided even in the case of high RF field strengths (for example, 3 Tesla) as well as in the case of a large number of RF coils 4, thus avoiding damaging and/or failure of the accessory device 6 and the connection unit 12.

Detail Description Paragraph:

[0045] In the case where the RF body coil is composed of a plurality of individual conductor segments (antenna segments) which can be connected to one another or separated from one another by means of diodes in order to achieve given reception characteristics, the power supply and the switching of the diodes can be realized by means of alternating voltage signals which are generated by the connection unit 12 and conducted via the connection lead 13. At a frequency of, for example, 2 MHz of the power supply and of, for example, 20 MHz of the switching voltage (that is, frequencies clearly beyond the range of the MR frequency, but within the transmission bandwidth of the connection lead), the connection lead 13 exhibits no significant attenuation in this respect.

Detail Description Paragraph:

[0046] The connection lead 13 can be realized, for example, in conformity with a first embodiment as shown in FIG. 4. This is a two-wire lead (for example, a twisted pair), three lead segments 131, 132, 133 of which are shown. The lead segments are coupled to one another via a respective transformer 141, 1412 whose primary and secondary windings L1, L2 terminate the respective lead segment. Optionally, the lead segments 131, 132, 133 may be provided with a shield 151, 152, 153; the shields then overlap one another in a contactless manner at the area of the transformers 141, 1412.

Detail Description Paragraph:

[0051] At both ends of the connection lead 13 the transformers may be constructed so as to form part of the RF body coil 6 (or a transmission and/or receiving unit 11 of a catheter 10) or of a connector on the connection unit 12.

Detail Description Paragraph:

[0052] When the (discrete) transformers 141, 142, . . . are not desired along the connection lead 13 for mechanical or other reasons, it is possible to realize the transformers in the form of conductor loops 161, 162, . . . . FIG. 7 shows such a third embodiment of the connection lead 13; this embodiment is advantageous notably when the connection lead 13 must have a particularly small cross-section.

Detail Description Paragraph:

[0053] This connection lead 13 is again composed of a plurality of lead segments 131, 132, 133 with two cores, which are short-circuited at the respective ends of each lead segment. The conductor segments are again inductively coupled to one another. To this end use is made of said conductor loops 161, 162 which are arranged each time over end zones of neighboring lead segments 131, 132 and 132, 133 etc. This connection lead 13 can be realized, for example, by way of a strip-like board or other, also flexible carrier material (for example, a foil) which is provided on one side with the lead segments 131, 132, 133, . . . and with the conductor loops 161, 162, . . . on the other side.

Detail Description Paragraph:

[0054] Optionally, shields 171, 172; 173, 174 may also be provided in this third embodiment, said shields being arranged on the conductor loops 161, 162 and/or the lead segments 131, 132, 133.

Detail Description Paragraph:

[0056] In this equivalent diagram the voltage generated by a first voltage source U.sub.1 again represents the voltage which is induced, by the RF pulses emitted by

the RF transmission coils 4, in an RF body coil 6 as well as in the part of the connection lead 13 which extends through the field of the RF transmission coil 4 (common mode signal). A second voltage source U.sub.2 represents the (differential mode) signals induced in the RF body coil 6 by the MR relaxation events. The two lead segments 131, 132 shown in FIG. 8 are again connected to one another via a transformer having a primary winding L1 and a secondary winding L2 in conformity with the foregoing description. The transformer is shown in the form of a known T equivalent circuit consisting of a parallel mutual inductance M of the two windings L1, L2 as well as the serial inductances L1-M and L2-M.

Detail Description Paragraph:

[0059] In as far as direct voltage signals are to be conducted via the connection lead 13, for example, in order to bias diodes between parts of the body coil 6, the two capacitors C1, C2 as well as the intermediate transformer can be bridged by means of ohmic resistances R. In respect of the bridging of the transformer, of course, this also holds in this sense for the first equivalent diagram shown in FIG. 3 (not depicted therein).

Detail Description Paragraph:

[0060] The described connection leads offer special advantages for the application of switchable RF body coils 6 which are used notably in the case of SENSE (Sensitivity Encoding) imaging methods, because on the one hand disturbance-free power supply and switching over of the various parts of the RF body coils 6 by means of diodes as well as the transfer of the received relaxation signals is thus possible as described above, while on the other hand there is no risk of the patient being burnt due to resonance effects caused by the RF power emitted by the RF transmission coil 4 and the inherent heating of the connection lead 13. The connection lead 13 can thus be arranged directly in the bed of the patient. The risk for the accessory device 6, 11 or the connection unit 12 is also precluded to a high degree. The same also holds for high RF field strengths.

Detail Description Paragraph:

[0061] The use of such connection leads requires substantially fewer system modifications than, for example, the optical transmission of the relevant signals from and to the RF body coils, catheters or other accessory devices.

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L81: Entry 1 of 6

File: PGPB

Jul 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060158188

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060158188 A1

TITLE: NMR RF coils with improved low-frequency efficiency

PUBLICATION-DATE: July 20, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hudson; Alexander MJ	San Francisco	CA	US
Mehr; Knut G.	San Francisco	CA	US

US-CL-CURRENT: [324/318](#); [324/303](#), [324/322](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20050218897 A1

L81: Entry 2 of 6

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 7132829 B2

L81: Entry 3 of 6

File: USPT

Nov 7, 2006

US-PAT-NO: 7132829

DOCUMENT-IDENTIFIER: US 7132829 B2

TITLE: NMR RF coils with improved low-frequency efficiency

DATE-ISSUED: November 7, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060158188 A1

July 20, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hudson; Alexander M J	San Francisco	CA		US
Mehr; Knut G.	San Francisco	CA		US

US-CL-CURRENT: 324/318; 324/307, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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☐ 4. Document ID: US 7064549 B1

L81: Entry 4 of 6

File: USPT

Jun 20, 2006

US-PAT-NO: 7064549

DOCUMENT-IDENTIFIER: US 7064549 B1

TITLE: NMR RF coils with split movable capacitance bands

DATE-ISSUED: June 20, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hudson; Alexander M J	San Francisco	CA		US

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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☐ 5. Document ID: US 6175237 B1

L81: Entry 5 of 6

File: USPT

Jan 16, 2001

US-PAT-NO: 6175237

DOCUMENT-IDENTIFIER: US 6175237 B1

TITLE: Center-fed paralleled coils for MRI

DATE-ISSUED: January 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		
Entzminger, Jr.; George	Columbia	SC		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Chaffin	Front	Review	Classification	Date	Reference	Abstract	Subject	Claims	KMC	Draw D
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☐ 6. Document ID: US 3402346 A

L81: Entry 6 of 6

File: USOC

Sep 17, 1968

US-PAT-NO: 3402346

DOCUMENT-IDENTIFIER: US 3402346 A

TITLE: Coaxial receiver coil and capacitor structure for probes of uhf gyromagnetic spectrometers

DATE-ISSUED: September 17, 1968

INVENTOR-NAME: BAKER GEORGE A

US-CL-CURRENT: 324/322; 324/310, 334/81

Full	Title	Chaffin	Front	Review	Classification	Date	Reference	Abstract	Subject	Claims	KMC	Draw D
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LOOP	937923
LOOPS	295111

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☐ 1. Document ID: US 20050218897 A1

L82: Entry 1 of 3

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw D</a>
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☐ 2. Document ID: US 6175237 B1

L82: Entry 2 of 3

File: USPT

Jan 16, 2001

US-PAT-NO: 6175237

DOCUMENT-IDENTIFIER: US 6175237 B1

TITLE: Center-fed paralleled coils for MRI

DATE-ISSUED: January 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty, F. David	Columbia	SC		
Entzminger, Jr.; George	Columbia	SC		

US-CL-CURRENT: [324/318](#); [324/321](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw D</a>
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3. Document ID: US 3402346 A

L82: Entry 3 of 3

File: USOC

Sep 17, 1968

US-PAT-NO: 3402346

DOCUMENT-IDENTIFIER: US 3402346 A

TITLE: Coaxial receiver coil and capacitor structure for probes of uhf gyromagnetic spectrometers

DATE-ISSUED: September 17, 1968

INVENTOR-NAME: BAKER GEORGE A

US-CL-CURRENT: 324/322; 324/310, 334/81

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search	Index	Claims	KWIC	Draw D
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Clear

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Bkwd Refs

Generate OACS

Term	Documents
"WAVE LENGTH\$4"	0
.LAMDA.	0
.LAMDA.S	0
.LAMDA./2	0
.LAMDA./2S	0
.LAMDA./4	0
.LAMDA./4S	0
.LAMDA./8	0
.LAMDA./8S	0
WAVELENGTH\$4	0
WAVELENGTH	588636
(L81 AND (WAVELENGTH\$4 OR WAVE-LENGTH\$4 OR "WAVE LENGTH\$4" OR ".LAMDA." OR ".LAMDA./2" OR ".LAMDA./4" OR ".LAMDA./8") ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20050218897 A1

L83: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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[Clear](#)   [Generate Collection](#)   [Print](#)   [Fwd Refs](#)   [Bkwd Refs](#)   [Generate OACS](#)

Term	Documents
DUO	7073
DUOS	96
DUAL	542168
DUALS	466
SEGMENT	647517
SEGMENTS	568015
SEGMENTED	109057
SEGMENTEDS	0
SEGMENTING	22209
SEGMENTINGS	0
SEGMENTATION	34076
(L82 AND ((TWIST\$3 WITH PAIR\$3 OR DUO OR DUAL	

OR BIFILAR\$2 OR BIFILIAR\$2 OR BIFLIAR\$2) SAME ((LEAD\$3) SAME (SEGMENT OR SEGMENTED OR SEGMENTING OR SEGMENTATION OR PORTION OR PART OR SECTION) SAME (RING OR LOOP OR ANNULUS OR ANULUS OR ANULAR\$2 OR WINDING OR COIL))) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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[Generate OACS](#)

### Search Results - Record(s) 1 through 13 of 13 returned.

☐ 1. Document ID: US 20060084867 A1

L84: Entry 1 of 13

File: PGPB

Apr 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060084867

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060084867 A1

TITLE: Method and apparatus for surgical navigation

PUBLICATION-DATE: April 20, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tremblay; Brian M.	Longmont	CO	US
Martens; Todd	Denver	CO	US
Larocque; Brandon D.	Westminster	CO	US
Hunter; Mark W.	Broomfield	CO	US

US-CL-CURRENT: 600/434

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 20060025677 A1

L84: Entry 2 of 13

File: PGPB

Feb 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060025677

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060025677 A1

TITLE: Method and apparatus for surgical navigation

PUBLICATION-DATE: February 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Verard; Laurent G.	Superior	CO	US
Hughes; Joel S.	Erie	CO	US
Hartmann; Steven L.	Superior	CO	US
Kappus; John J.	Denver	CO	US
Moctezuma; Joseph	Golden	CO	US

DiCorleto; Matthew F.	Denver	CO	US
Jascob; Bradley A.	Broomfield	CO	US
Clayton; John B.	Louisville	CO	US

US-CL-CURRENT: 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20050218897 A1

L84: Entry 3 of 13

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20050085720 A1

L84: Entry 4 of 13

File: PGPB

Apr 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050085720  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050085720 A1

TITLE: Method and apparatus for surgical navigation

PUBLICATION-DATE: April 21, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Jascob, Bradley A.	Broomfield	CO	US
Dukesharer, John H.	Lakewood	CO	US
Shaver, Scott	Thornton	CO	US
Hunter, Mark	Broomfield	CO	US
Martens, Todd	Denver	CO	US
Yared, Nadim	Superior	CO	US

Boes, Kirstin

Golden

CO

US

US-CL-CURRENT: 600/424; 128/899

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20050085715 A1

L84: Entry 5 of 13

File: PGPB

Apr 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050085715

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050085715 A1

TITLE: Method and apparatus for surgical navigation

PUBLICATION-DATE: April 21, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dukesherer, John H.	Lakewood	CO	US
Burg, Bruce M.	Louisville	CO	US
Jascob, Bradley A.	Superior	CO	US
Kessman, Paul	Broomfield	CO	US

US-CL-CURRENT: 600/424; 128/899

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 20040145366 A1

L84: Entry 6 of 13

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040145366

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040145366 A1

TITLE: Superconducting quantum interference apparatus and method for high resolution imaging of samples

PUBLICATION-DATE: July 29, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Baudenbacher, Franz J.	Nashville	TN	US
Peters, Nicholas T.	Chicago	IL	US
Wiksw, John P. JR.	Brentwood	TN	US
Fagaly, Robert L.	Carlsbad	CA	US

US-CL-CURRENT: 324/248; 505/846, 600/409

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 7. Document ID: US 7002341 B2

L84: Entry 7 of 13

File: USPT

Feb 21, 2006

US-PAT-NO: 7002341

DOCUMENT-IDENTIFIER: US 7002341 B2

TITLE: Superconducting quantum interference apparatus and method for high resolution imaging of samples

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040145366 A1

July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baudenbacher; Franz J.	Nashville	TN		US
Peters; Nicholas T.	Chicago	IL		US
Wikswow, Jr.; John P.	Brentwood	TN		US
Fagaly; Robert L.	Carlsbad	CA		US

US-CL-CURRENT: 324/248; 600/409

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 6608480 B1

L84: Entry 8 of 13

File: USPT

Aug 19, 2003

US-PAT-NO: 6608480

DOCUMENT-IDENTIFIER: US 6608480 B1

TITLE: RF coil for homogeneous quadrature transmit and multiple channel receive

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weyers; Daniel J.	Wauwatosa	WI		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 5508614 A

L84: Entry 9 of 13

File: USPT

Apr 16, 1996

US-PAT-NO: 5508614

DOCUMENT-IDENTIFIER: US 5508614 A

TITLE: Non-contact method for testing for MR shield short circuits

DATE-ISSUED: April 16, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garfunkel; Glen A.	Palo Alto	CA		
Horne; Donald E.	San Jose	CA		
Smith; Robert L.	Cupertino	CA		

US-CL-CURRENT: 324/318; 324/322, 324/526

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 10. Document ID: US 4801882 A

L84: Entry 10 of 13

File: USPT

Jan 31, 1989

US-PAT-NO: 4801882

DOCUMENT-IDENTIFIER: US 4801882 A

TITLE: Thin film SQUID magnetometer for a device for measuring weak magnetic fields

DATE-ISSUED: January 31, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Daalmans; Gabriel M.	Erlangen			DE

US-CL-CURRENT: 324/248; 257/31, 257/421, 600/409

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 11. Document ID: US 3577067 A

L84: Entry 11 of 13

File: USPT

May 4, 1971

US-PAT-NO: 3577067

DOCUMENT-IDENTIFIER: US 3577067 A

TITLE: PERSISTENT MODE SUPERCONDUCTIVE ORTHOGONAL GRADIENT CANCELLING COILS

DATE-ISSUED: May 4, 1971

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weaver, Jr.; Harry E.	Portola Valley	CA		

US-CL-CURRENT: 324/320; 324/310, 335/216, 361/146, 505/879

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 12. Document ID: US 3336526 A

L84: Entry 12 of 13

File: USOC

Aug 15, 1967

US-PAT-NO: 3336526

DOCUMENT-IDENTIFIER: US 3336526 A

TITLE: Superconducting magnet

DATE-ISSUED: August 15, 1967

INVENTOR-NAME: WEAVER JR HARRY E; RORDEN ROBERT J

US-CL-CURRENT: 324/319, 324/310, 335/216

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 13. Document ID: US 2911587 A

L84: Entry 13 of 13

File: USOC

Nov 3, 1959

US-PAT-NO: 2911587

DOCUMENT-IDENTIFIER: US 2911587 A

TITLE: Proton resonance monitor

DATE-ISSUED: November 3, 1959

INVENTOR-NAME: BAYLY JOHN G

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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Bkwd Refs

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Term	Documents
TRANSFORMER	411765
TRANSFORMERS	97976

(79 AND TRANSFORMER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	13
(L79 AND (TRANSFORMER) ) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	13

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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20050218897 A1

L85: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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[Bkwd Refs](#)
[Generate OACS](#)

Term	Documents
TOROID\$4	0
TOROID	12653
TOROIDA	80
TOROIDABLE	2
TOROIDABY	1
TOROIDAD	2
TOROIDADLY	1
TOROIDAE	1
TOROIDAF	3
TOROIDAFFY	2
TOROIDAFly	3
(L84 AND	1

(TOROID\$4) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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### Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20050218897 A1

L86: Entry 1 of 3

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 3336526 A

L86: Entry 2 of 3

File: USOC

Aug 15, 1967

US-PAT-NO: 3336526

DOCUMENT-IDENTIFIER: US 3336526 A

TITLE: Superconducting magnet

DATE-ISSUED: August 15, 1967

INVENTOR-NAME: WEAVER JR HARRY E; RORDEN ROBERT J

US-CL-CURRENT: [324/319](#), [324/310](#), [335/216](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 2911587 A

L86: Entry 3 of 3

File: USOC

Nov 3, 1959

US-PAT-NO: 2911587

DOCUMENT-IDENTIFIER: US 2911587 A

TITLE: Proton resonance monitor

DATE-ISSUED: November 3, 1959

INVENTOR-NAME: BAYLY JOHN G

US-CL-CURRENT: 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Pat. Class.	Pat. No.	Claims	KWIC	Draw. De
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Term	Documents
TRANSFORMER	411765
TRANSFORMERS	97976
CONNECT	2252419
CONNECTS	993090
CONNECTING	2863569
CONNECTINGS	146
CONNECTED	7148223
CONNECTEDS	15
CONNECTION	3930560
CONNECTIONS	981306
CONNECTABLE	163201
(L84 AND ((TRANSFORMER) SAME ((CONNECT OR CONNECTING OR CONNECTED OR CONNECTION OR CONNECTABLE) SAME (LEAD\$3) SAME (SEGMENT OR SEGMENTED OR SEGMENTING OR SEGMENTATION OR PORTION OR PART OR SECTION)))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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### Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20050218897 A1

L87: Entry 1 of 2

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: [324/322](#); [324/318](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 3336526 A

L87: Entry 2 of 2

File: USOC

Aug 15, 1967

US-PAT-NO: 3336526

DOCUMENT-IDENTIFIER: US 3336526 A

TITLE: Superconducting magnet

DATE-ISSUED: August 15, 1967

INVENTOR-NAME: WEAVER JR HARRY E; RORDEN ROBERT J

US-CL-CURRENT: [324/319](#), [324/310](#), [335/216](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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Term	Documents
HEATING	2254742
HEATINGS	1284
HEATED	1847878
HEATEDS	3
HEAT	3655375
HEATS	141095
THERMAL	1537541
THERMALS	363
THERMALLY	449222
THERMALLIES	0
THERMALLYS	1
(L86 AND ((HEATING OR HEATED OR HEAT OR THERMAL OR THERMALLY OR HEATABLE) SAME (LEAD\$3) SAME (PREVENT OR INHIBIT OR INHIBITED OR INHIBITING OR PREVENTION OR PREVENTED OR PREVENTABLE OR PREVENTING OR MINIMIZED OR MINIMAL OR MINIMALLY OR MNOR OR AVOID OR AVOIDING OR AVOIDED OR PRECLUDED OR PRECLUDING OR PRECLUDE)) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20050218897 A1

L88: Entry 1 of 1

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050218897

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050218897 A1

TITLE: Connection lead for an electrical accessory device of an mri system

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schulz, Volkmar	Hamburg		DE
Gleich, Bernhard	Hamburg		DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Term	Documents
CONNECT	2252419
CONNECTS	993090
CONNECTING	2863569
CONNECTINGS	146
CONNECTED	7148223
CONNECTEDS	15
CONNECTION	3930560
CONNECTIONS	981306
CONNECTABLE	163201
CONNECTABLES	22
EXAMINATION	294231
(L87 AND ((CONNECT OR CONNECTING OR CONNECTED OR	

CONNECTION OR CONNECTABLE) SAME ((LEAD\$3) WITH (EXAMINATION OR ZONE OR AREA OR VOLUME OR REGION OR INVESTIGATION OR INTEREST OR "ROI" OR "VOI")) SAME (RF OR RADIOFREQUENCY OR RADIO-FREQUENCY OR "RADIO FREQUENCY")) ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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